

Notice of Allowability

Application No.

10/630,390

Examiner

Kiet Doan

Applicant(s)

CHUEY, MARK D.

Art Unit

2683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/10/2005.
2. ☒ The allowed claim(s) is/are 1-29- has been renumbered 1-22 respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

This office action is response to amendment file on 11/10/2005.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark Chuey on 11/22/2005.

The applicant has been amended as follow:

Claims 2-3, 16, 25-28, 30 are canceled.

Claim 1. A system for wirelessly activating an appliance, the appliance responding to one of a plurality of transmission schemes, the system comprising:

a transmitter operative to transmit a radio frequency activation signal based on any of the plurality of transmission schemes;

a plurality of activation input, each activation input identifying a wireless channel; each of the plurality of activation inputs comprising a switch;

a user programming input including the same plurality of switches as the plurality of activation inputs;

memory holding data describing a plurality of rolling code transmission schemes and a plurality of fixed code transmission schemes; and

control logic in communication with the transmitter, the plurality of activation inputs, the user programming input and the memory, the control logic implementing a rolling code programming mode, a fixed code programming mode and an operating mode;

the control logic in rolling code programming mode generating and transmitting a sequence of rolling code activation signals, each rolling code activation signal in the sequence of rolling code activation signals based on a different one of the plurality of rolling code transmission schemes, until user input indicates a successful rolling code transmission scheme, the control logic storing data specifying the successful rolling code transmission scheme associated with one of the at least one activation inputs;

the control logic in fixed code programming mode receiving a fixed code from the user programming input then generating and transmitting a sequence of fixed code activation signals, each fixed code activation signal in the sequence of fixed code activation signals based on one of the plurality of fixed code transmission schemes and each transmitting the received fixed code, until user input indicates a successful fixed code transmission scheme, the control logic storing the fixed code and data specifying the successful fixed code transmission scheme associated with one of the at least one activation inputs;

the control logic in operating mode receiving an activation input, retrieving data associated with the received activation input, and transmitting an activation signal based on the retrieved data.

Claim 15. A method of activating an appliance, the appliance controlled by a radio frequency activation signal, the method comprising: if a user indicates that the appliance is activated by a rolling code activation signal, transmitting a sequence of different rolling code activation signals until the user indicates a successful rolling code transmission, then storing data representing a rolling code scheme used to generate the successful rolling code transmission associated with one of a plurality of activation inputs;

if the user indicates that the appliance is activated by a fixed code activation signal, receiving a fixed code word input by the user and using the a fixed code word to generate and transmit each of a sequence of different fixed code activation signals until the user indicates a successful fixed code transmission, then storing data representing the fixed code word and a fixed code scheme used to generate the successful fixed code transmission associated with one of the plurality of activation inputs; and

in response to an activation of one of the plurality of activation inputs, generating and transmitting an activation signal based on stored data.

Claims 24. A method of programming a programmable remote control, the remote control programmable to one of a plurality of appliance activation schemes, the method comprising:

receiving data specifying characteristics of at least one of the plurality of appliance activation schemes over a vehicle bus;

receiving user type input specifying activation signal type;

if the user type input specifies variable code type, transmitting variable code activation signals until receiving user success input indicating a target appliance has been activated;

if the user type input specifies fixed code type, receiving user fixed code input providing a fixed code and transmitting fixed code activation signals until receiving user success input indicating the target appliance has been activated; and

storing information specifying an activation signal for activating the target appliance based on the received user success input.

Claim 29. A system for wirelessly activating an appliance, the appliance responding to one of a plurality of transmission schemes, the system comprising:

a radio frequency transmitter;
memory holding data describing the plurality of transmission schemes; and
control logic in communication with the transmitter and the memory, the control logic operative to

- (a) store a fixed code,
- (b) if a fixed code is stored, transmit a sequence of fixed code activation schemes, based on the fixed code and data held in the memory, until input indicating activation of the appliance is received,
- (c) if no fixed code is stored, transmit a sequence of rolling code activation schemes, based on data held in the memory, until input indicating activation of the appliance is received,

- (d) store an indication as to which activation scheme activated the appliance based on the received input indicating activation of the appliance,
- (e) generate an activation signal based on the stored indication and a received activation input, and
- (f) receive the data describing the plurality of transmission schemes and store the received data in the memory.

Allowable Subject Matter

Claims 1, 4-15, 17-24, 29 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art record, Farris (Patent No. 6,025,785) teaches a system for wirelessly activating an appliance, the appliance responding to one of a plurality of transmission schemes, the system comprising:

- a transmitter operative to transmit a radio frequency activation signal based on any of the plurality of transmission schemes;

- a plurality of activation input, each activation input identifying a wireless channel; each of the plurality of activation inputs comprising a switch (C3, L24-49, C4, L14-19, Fig.1, No.30/31 Illustrate as wireless activation);

- a user programming input including the same plurality of switches as the plurality of activation inputs;

- memory holding data describing a plurality of rolling code transmission schemes and a plurality of fixed code transmission schemes (Fig.1, No.30 Illustrate as rolling code and No.31 Illustrate as fix code); and

However, Farris **fails to suggest or fairly teach** control logic in communication with the transmitter, the plurality of activation inputs, the user programming input and the memory, the control logic implementing a rolling code programming mode, a fixed code programming mode and an operating mode;

the control logic in rolling code programming mode generating and transmitting a sequence of rolling code activation signals, each rolling code activation signal in the sequence of rolling code activation signals based on a different one of the plurality of rolling code transmission schemes, until user input indicates a successful rolling code transmission scheme, the control logic storing data specifying the successful rolling code transmission scheme associated with one of the at least one activation inputs;

the control logic in fixed code programming mode receiving a fixed code from the user programming input then generating and transmitting a sequence of fixed code activation signals, each fixed code activation signal in the sequence of fixed code activation signals based on one of the plurality of fixed code transmission schemes and each transmitting the received fixed code, until user input indicates a successful fixed code transmission scheme, the control logic storing the fixed code and data specifying the successful fixed code transmission scheme associated with one of the at least one activation inputs;

the control logic in operating mode receiving an activation input, retrieving data associated with the received activation input, and transmitting an activation signal based on the retrieved data as substantially connect and specific detail and including all limitations as particularly recited in claims 15, 24, 29.

Claims 4-14, 17-23 are allowed as being dependent on the independent claims 1 and 15.

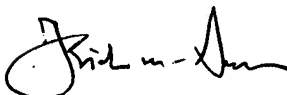
Conclusion

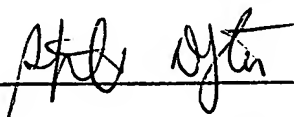
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiet Doan whose telephone number is 571-272-7863. The examiner can normally be reached on 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Kiet Doan
Patent Examiner

 11-23-05
STEPHEN D'AGOSTA
PRIMARY EXAMINER